

# HALLIBURTON

iCem<sup>®</sup> Service

## **URSA RESOURCES GROUP**

**For: Ursa**

Date: Saturday, June 03, 2017

**BMC B 14A-18-07-95 Surface**

**05-045-23319-00**

Sincerely,  
Grand Junction Cement Engineering

## 1.0 Real-Time Job Summary

## 1.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	6/3/2017	04:00:00	USER					O/L time 1000
Event	2	Pre-Convoy Safety Meeting	6/3/2017	06:15:00	USER					
Event	3	Crew Leave Yard	6/3/2017	06:30:00	USER					1 Elite, 2 660s, 1 pickup
Event	4	Arrive At Location	6/3/2017	08:00:00	USER					Rig running casing
Event	5	Assessment Of Location Safety Meeting	6/3/2017	08:15:00	USER					JSA completed - customer offered/received SDS - water test pH 7.5, Cl 0, temp 58 degrees
Event	6	Pre-Rig Up Safety Meeting	6/3/2017	08:30:00	USER					
Event	7	Rig-Up Equipment	6/3/2017	08:45:00	USER					Hard line w/ standpipe to floor, water hose to upright, bulk hoses to 660s
Event	8	Pre-Job Safety Meeting	6/3/2017	11:00:00	USER					All HES personnel, rig crew, and company rep - rig circulating @ 9 bpm w/ 220 psi for 45 minutes
Event	9	Start Job	6/3/2017	11:22:00	USER					TD 1895', TP 1880', SJ 44', Mud 10.2 ppg, 12 1/4" OH, 8 5/8" 32# J55 casing
Event	10	Prime Lines	6/3/2017	11:23:34	USER	8.33	2.0	40	2.0	Fresh water
Event	11	Test Lines	6/3/2017	11:26:20	COM5			3077		Pressure held very well
Event	12	Pump H2O Spacer	6/3/2017	11:28:57	COM5	8.33	3.0	35	20.0	Water ahead - returns established
Event	13	Pump Lead Cement	6/3/2017	11:35:22	COM5	12.3	8.0	235	128.8	294 sks, 12.3 ppg, 2.46 yield, 14.17 gal/sk
Event	14	Check weight	6/3/2017	11:36:49	COM5	12.3				Weight verified w/ mud scales
Event	15	Pump Tail Cement	6/3/2017	11:54:04	COM5	12.8	8.0	215	47.0	121 sks, 12.8 ppg, 2.18 yield, 12.11 gal/sk
Event	16	Shutdown	6/3/2017	12:00:52	USER					Wash up on top of plug

Event	17	Drop Top Plug	6/3/2017	12:04:02	USER					Plug launched- verified by company rep
Event	18	Pump Displacement	6/3/2017	12:04:51	COM5	8.33	10.0	595	111.8	Fresh water
Event	19	Slow Rate	6/3/2017	12:17:04	USER	8.33	2.0	330	@ 102	Good returns throughout job
Event	20	Bump Plug	6/3/2017	12:22:44	COM5			405		Approx 32 bbls cement to surface
Event	21	Check Floats	6/3/2017	12:24:44	COM5			1050		Floats held – ½ bbl flowback
Event	22	End Job	6/3/2017	12:26:00	COM5					40 lbs sugar used
Event	23	Pre-Rig Down Safety Meeting	6/3/2017	12:45:00	USER					
Event	24	Rig-Down Equipment	6/3/2017	13:00:00	USER					
Event	25	Pre-Convoy Safety Meeting	6/3/2017	13:30:00	USER					
Event	26	Crew Leave Location	6/3/2017	14:00:00	USER					Thank you for using Halliburton - Ed Deussen and crew